

L Number	Hits	Search Text	DB	Time stamp
38	3223	("90" adj degree or ninety-degree or ninety adj degree) near5 (phase adj shift\$2)	USPAT; EPO; JPO	2003/10/21 09:16
39	189	("90" adj degree or ninety-degree or ninety adj degree) near5 (phase adj shift\$2) and (318/\$.ccls. or 310/\$.ccls.)	USPAT; EPO; JPO	2003/10/21 09:16
40	60	("90" adj degree or ninety-degree or ninety adj degree) near5 (phase adj shift\$2) and (318/\$.ccls. or 310/\$.ccls.) and rotor and stator	USPAT; EPO; JPO	2003/10/21 09:17
41	26	("90" adj degree or ninety-degree or ninety adj degree) near5 (phase adj shift\$2) and (318/\$.ccls. or 310/\$.ccls.) and rotor and stator and (magnetic adj field)	USPAT; EPO; JPO	2003/10/21 09:25
42	11	("90" adj degree or ninety-degree or ninety adj degree) near5 (phase adj shift\$2) and (318/\$.ccls. or 310/\$.ccls.) and rotor and stator and (magnetic adj field) and (PM or permanent adj magnet)	USPAT; EPO; JPO	2003/10/21 09:27
43	7	("90" adj degree or ninety-degree or ninety adj degree) near5 (phase adj shift\$2) and (318/\$.ccls. or 310/\$.ccls.) and rotor and stator and (magnetic adj field) and (PM or permanent adj magnet) and (rotary adj transformer or brush or wheels adj on adj a adj track or non adj contact adj signal)	USPAT; EPO; JPO	2003/10/21 09:51
44	1	("90" adj degree or ninety-degree or ninety adj degree) near5 (phase adj shift\$2) and (318/\$.ccls. or 310/\$.ccls.) and rotor and stator and (magnetic adj field) and (PM or permanent adj magnet) and (rotary adj transformer)	USPAT; EPO; JPO	2003/10/21 09:54
47	2	(318/\$.ccls. and rotor and stator and (magnetic adj field) and (PM or permanent adj magnet) and (rotary adj transformer) and (phase adj shift\$2))	USPAT; EPO; JPO	2003/10/21 12:50
54	4104	318/254.ccls.	USPAT; EPO; JPO	2003/10/21 13:26
55	451	310/219.ccls.	USPAT; EPO; JPO	2003/10/21 13:26
56	581	310/68D.ccls.	USPAT; EPO; JPO	2003/10/21 13:26
57	1235	310/68R.ccls.	USPAT; EPO; JPO	2003/10/21 13:26
58	899	310/112.ccls.	USPAT; EPO; JPO	2003/10/21 13:26
59	505	310/114.ccls.	USPAT; EPO; JPO	2003/10/21 13:27
60	89	318/715.ccls.	USPAT; EPO; JPO	2003/10/21 13:27
61	21	318/737.ccls.	USPAT; EPO; JPO	2003/10/21 13:27
62	37	318/731.ccls.	USPAT; EPO; JPO	2003/10/21 13:28
63	97	318/732.ccls.	USPAT; EPO; JPO	2003/10/21 13:28
64	265	318/705.ccls.	USPAT; EPO; JPO	2003/10/21 13:28
65	194	318/140.ccls.	USPAT; EPO; JPO	2003/10/21 13:29
66	374	318/154.ccls.	USPAT; EPO; JPO	2003/10/21 13:29
67	209	318/148.ccls.	USPAT; EPO; JPO	2003/10/21 13:29
68	223	318/146.ccls.	USPAT; EPO; JPO	2003/10/21 13:29

69	92	318/147.ccls.	USPAT;	2003/10/21
70	75	318/153.ccls.	EPO; JPO	13:29
71	1119	318/139.ccls.	USPAT;	2003/10/21
72	547	318/778.ccls.	EPO; JPO	13:30
73	201	318/779.ccls.	USPAT;	2003/10/21
74	1000	363/132.ccls.	EPO; JPO	13:30
75	329	318/102.ccls.	USPAT;	2003/10/21
76	272	318/103.ccls.	EPO; JPO	13:30
77	56	318/104.ccls.	USPAT;	2003/10/21
78	91	318/105.ccls.	EPO; JPO	13:32
79	303	318/805.ccls.	USPAT;	2003/10/21
80	1880	318/138.ccls.	EPO; JPO	13:32
81	1157	318/439.ccls.	USPAT;	2003/10/21
82	769	318/799.ccls.	EPO; JPO	13:33
83	496	318/727.ccls.	USPAT;	2003/10/21
84	92	318/734.ccls.	EPO; JPO	13:33
85	158	318/747.ccls.	USPAT;	2003/10/21
86	59	318/748.ccls.	EPO; JPO	13:33
87	78	318/749.ccls.	USPAT;	2003/10/21
88	532	318/701.ccls.	EPO; JPO	13:35
89	366	318/800.ccls.	USPAT;	2003/10/21
-	304	318/\$.ccls. and vector.ab. and flux.ab.	EPO; JPO	13:36
-	17	318/\$.ccls. and motor.ab. and stator.ab. and rotor.ab. and (slip adj rings).ab.	USPAT;	2003/10/17
-	11	318/\$.ccls. and (AC adj motor or induction).ab. and stator.ab. and rotor.ab. and (slip adj rings).ab.	EPO; JPO	09:00
-	2	318/\$.ccls. and (AC adj motor or induction).ab. and stator.ab. and rotor.ab. and (electro-magnetic or emf).ab.	USPAT;	2003/06/18
-	1	318/\$.ccls. and (induction adj motor).ab. and stator.ab. and rotor.ab. and (electro-magnetic or emf).ab.	EPO; JPO	16:52
-	3	(induction adj motor).ab. and stator.ab. and rotor.ab. and (electro-magnetic or emf).ab.	USPAT;	2003/06/18
-	100	(rotat\$3 adj magnet\$3 adj flux).ab.	EPO; JPO	17:00
-	18	318/\$.ccls. and (rotat\$3 adj magnet\$3 adj flux).ab.	USPAT;	2003/10/03
-	3	318/\$.ccls. and (rotat\$3 adj magnet\$3 adj flux) and (phase adj angle).ab.	EPO; JPO	14:23
-	3	(rotat\$3 adj magnet\$3 adj flux) and (phase adj angle).ab.	USPAT;	2003/06/18
-	39	(rotat\$3 adj magnet\$3 adj flux) and (phase adj angle)	EPO; JPO	17:27
-	4	(rotat\$3 adj magnet\$3 adj flux) and (phase adj angle near8 determin\$4)	USPAT;	2003/06/18
			EPO; JPO	17:28
			USPAT;	2003/06/18
			EPO; JPO	17:30
			USPAT;	2003/06/18
			EPO; JPO	18:07
			USPAT;	2003/06/18
			EPO; JPO	18:10
			USPAT;	2003/06/18
			EPO; JPO	18:10
			USPAT;	2003/06/18
			EPO; JPO	18:10
			USPAT;	2003/06/18
			EPO; JPO	18:19

Search History 10/21/03 1:57:16 PM Page 2

-	6	(rotat\$3 adj magnet\$3 adj flux) and (rotary adj transformer)	USPAT;	2003/06/18
-	869	vector.ab. and flux.ab.	EPO; JPO	18:19
-	3	vector.ab. and flux.ab. and (h-bridge or h adj bridge or Half adj bridge)	USPAT;	2003/06/20
-	419	vector.ab. and flux.ab. and (motor).ab.	EPO; JPO	08:19
-	33	vector.ab. and flux.ab. and (motor).ab. and (rotor and stator).ab.	USPAT;	2003/06/20
-	4	318/\$.ccls. and rotor adj phase adj shift	EPO; JPO	08:25
-	205	318/\$.ccls. and (rotor adj phase)	USPAT;	2003/06/20
-	41	318/\$.ccls. and (rotor adj phase).ab.	EPO; JPO	08:25
-	2282	318/\$.ccls. and (rotor).ab. and stator.ab.	USPAT;	2003/10/03
-	161	318/\$.ccls. and (rotor).ab. and stator.ab. and (phase adj shift)	EPO; JPO	14:27
-	2	318/\$.ccls. and (rotor).ab. and stator.ab. and (phase adj shift) and phase-lock	USPAT;	2003/10/03
-	2	(rotor).ab. and stator.ab. and (phase adj shift) and phase-lock	EPO; JPO	14:28
-	446	(rotor).ab. and stator.ab. and (rotary adj transformer)	USPAT;	2003/10/03
-	57	(318/\$.ccls. or 310/\$.ccls.) and (rotor).ab. and stator.ab. and (rotary adj transformer)	EPO; JPO	14:30
-	29	318/\$.ccls. and (flux adj vector).ab. and rotor.ab.	USPAT;	2003/10/03
-	1	318/\$.ccls. and (rotor adj flux adj vector not stator adj flux adj vector).ab. and rotor and angular and (phase adj angle)	EPO; JPO	14:31
-	1	(rotor adj flux adj vector not stator adj flux adj vector).ab. and rotor and angular and (phase adj angle)	USPAT;	2003/10/03
-	10	318/\$.ccls. and (rotor adj flux adj vector not stator adj flux adj vector) and rotor and angular and (phase adj angle)	EPO; JPO	14:37
-	10	(rotor adj flux adj vector not stator adj flux adj vector) and rotor and angular and (phase adj angle) and compar\$5	USPAT;	2003/10/14
-	3	(rotor adj flux adj vector not stator adj flux adj vector) and rotor and angular and (phase adj angle) and compar\$5 near5 (position or velocity)	EPO; JPO	08:57
-	2	318/\$.ccls. and (angular adj velocity).ab. and rotor and compar\$5 near8 (motor adj velocity)	USPAT;	2003/10/14
-	100	318/\$.ccls. and (instantaneous adj velocity)	EPO; JPO	09:30
-	43	318/\$.ccls. and (instantaneous adj velocity) and compar\$5 near5 velocity	USPAT;	2003/10/14
-	7	318/\$.ccls. and (instantaneous adj velocity) and compar\$5 near5 velocity and (flux)	EPO; JPO	15:08
-	305	318/\$.ccls. and (torque adj ripple).ab.	USPAT;	2003/10/14
-	46	318/\$.ccls. and (torque adj ripple).ab. and stator.ab. and rotor.ab.	EPO; JPO	15:09
-	8	318/\$.ccls. and (torque adj ripple).ab. and stator.ab. and rotor.ab. and simulta\$7	USPAT;	2003/10/15
-	2	318/\$.ccls. and (torque adj ripple).ab. and stator.ab. and rotor.ab. and simulta\$7 and accelera\$4	EPO; JPO	09:24
-			USPAT;	2003/10/14
-			EPO; JPO	15:52
-			USPAT;	2003/10/14
-			EPO; JPO	15:53
-			USPAT;	2003/10/14
-			EPO; JPO	15:59
-			USPAT;	2003/10/14
-			EPO; JPO	16:00

-	108	318/\$.ccls. and (rotary adj transformer)	USPAT; EPO; JPO	2003/10/15 09:26
-	191	(318/\$.ccls. or 310/\$.ccls.) and (rotary adj transformer)	USPAT; EPO; JPO	2003/10/15 11:08
-	120332	rotor.ab.	USPAT; EPO; JPO	2003/10/15 09:27
-	99	rotor.ab. and ((318/\$.ccls. or 310/\$.ccls.) and (rotary adj transformer))	USPAT; EPO; JPO	2003/10/15 09:27
-	44	rotor.ab. and ((318/\$.ccls. or 310/\$.ccls.) and (rotary adj transformer)) and (sine or sinusoidal)	USPAT; EPO; JPO	2003/10/15 10:05
-	16	rotor.ab. and ((318/\$.ccls. or 310/\$.ccls.) and (rotary adj transformer)) and (sine or sinusoidal) and (air adj gap)	USPAT; EPO; JPO	2003/10/15 10:05
-	7	(318/\$.ccls. or 310/\$.ccls.) and (rotary adj transformer) same (waveform)	USPAT; EPO; JPO	2003/10/15 13:26
-	109	(318/\$.ccls. or 310/\$.ccls.) and (magnetic adj flux adj vector)	USPAT; EPO; JPO	2003/10/15 13:36
-	504	(phase adj angle) near8 rotor	USPAT; EPO; JPO	2003/10/15 13:35
-	4	((318/\$.ccls. or 310/\$.ccls.) and (magnetic adj flux adj vector)) and ((phase adj angle) near8 rotor)	USPAT; EPO; JPO	2003/10/16 08:20
-	0	((318/\$.ccls. or 310/\$.ccls.) and (magnetic adj flux adj vector)) and (((phase adj angle) near8 rotor) same compar\$5)	USPAT; EPO; JPO	2003/10/15 16:06
-	2	(magnetic adj flux adj vector) and (((phase adj angle) near8 rotor) and compar\$5)	USPAT; EPO; JPO	2003/10/15 16:06
-	1	(318/\$.ccls. or 310/\$.ccls.) and ((magnetic adj flux adj vector) near8 (stator or rotor)) and ((phase adj angle) near8 rotor)	USPAT; EPO; JPO	2003/10/16 08:23
-	17	(318/\$.ccls. or 310/\$.ccls.) and ((flux adj vector) near8 (stator or rotor)) and ((phase adj angle) near8 rotor)	USPAT; EPO; JPO	2003/10/16 08:36
-	6	(318/\$.ccls. or 310/\$.ccls.) and ((flux adj vector) near8 (stator or rotor)) and ((phase adj angle) near8 rotor) and (phase adj lock\$2 or phase-lock\$2)	USPAT; EPO; JPO	2003/10/16 09:02
-	4	((flux adj vector) near8 (stator or rotor)) and ((phase adj angle) near8 rotor) and (phase adj lock\$2 or phase-lock\$2) and compa\$6	USPAT; EPO; JPO	2003/10/16 09:05
-	1	((flux adj vector) near8 (stator or rotor)) and ((phase adj angle) near8 rotor) and (phase adj lock\$2 or phase-lock\$2) and (compa\$6 near8 (phase adj angle))	USPAT; EPO; JPO	2003/10/16 09:12
-	41	(magnetic adj field) near8 (phase adj lock\$2 or phase-lock\$2)	USPAT; EPO; JPO	2003/10/16 09:14
-	2	318/\$.ccls. and (magnetic adj field) near8 (phase adj lock\$2 or phase-lock\$2)	USPAT; EPO; JPO	2003/10/16 09:40
-	621	318/\$.ccls. and stator adj (winding or coil\$2) and rotor adj (winding or coil\$2)	USPAT; EPO; JPO	2003/10/16 09:42
-	1807361	compar\$5	USPAT; EPO; JPO	2003/10/16 09:43
-	1110493	sensor or detector	USPAT; EPO; JPO	2003/10/16 09:43
-	37115	phase adj lock\$2 or phase-lock\$2 or lock\$2 adj phase	USPAT; EPO; JPO	2003/10/16 09:44
-	35	(318/\$.ccls. and stator adj (winding or coil\$2) and rotor adj (winding or coil\$2)) and compar\$5 and (sensor or detector) and (phase adj lock\$2 or phase-lock\$2 or lock\$2 adj phase)	USPAT; EPO; JPO	2003/10/16 14:46
-	258	318/245.ccls.	USPAT; EPO; JPO	2003/10/16 10:09

-	6	US-4843296-\$.DID. OR US-4999561-\$.DID. OR US-5280421-\$.DID. OR US-5371668-\$.DID. OR US-5440219-\$.DID. OR US-5629598-\$.DID.	USPAT; EPO; JPO	2003/10/16 14:40
-	2	(318/\$.ccls. and stator adj (winding or coil\$2) and rotor adj (winding or coil\$2)) and compar\$5 and (sensor or detector) and (phase adj lock\$2 or phase-lock\$2 or lock\$2 adj phase) and (flux adj vector)	USPAT; EPO; JPO	2003/10/16 14:56
-	0	(stator adj (winding or coil\$2)) and (rotor adj (winding or coil\$2)) and (compar\$5 near8 (rotor adj speed or rotor adj velocity)) and (phase adj lock\$2 or phase-lock\$2 or lock\$2 adj phase) and (flux adj vector)	USPAT; EPO; JPO	2003/10/16 15:02
-	0	stator and rotor and (compar\$5 near8 (rotor adj speed or rotor adj velocity)) and (phase adj lock\$2 or phase-lock\$2 or lock\$2 adj phase) and (flux adj vector)	USPAT; EPO; JPO	2003/10/16 15:03
-	232	(compar\$5 near8 (rotor adj speed or rotor adj velocity))	USPAT; EPO; JPO	2003/10/16 15:03
-	81	318/\$.ccls. and (compar\$5 near8 (rotor adj speed or rotor adj velocity))	USPAT; EPO; JPO	2003/10/16 15:04
-	68	318/\$.ccls. and (compar\$5 near8 (rotor adj speed or rotor adj velocity)) and stator and rotor	USPAT; EPO; JPO	2003/10/16 15:04
-	24	318/\$.ccls. and (compar\$5 near8 (rotor adj speed or rotor adj velocity)) and stator and rotor and (angular adj position)	USPAT; EPO; JPO	2003/10/16 15:05
-	16	318/\$.ccls. and (compar\$5 near8 (rotor adj speed or rotor adj velocity)) and stator and rotor and (angular adj position) and flux	USPAT; EPO; JPO	2003/10/16 15:05
-	706	rotor.ab. and wind\$4.ab. and stator.ab. and (magnetic adj field).ab.	USPAT; EPO; JPO	2003/10/17 09:03
-	134	rotor.ab. and wind\$4.ab. and stator.ab. and (rotat\$3 adj magnetic adj field).ab.	USPAT; EPO; JPO	2003/10/17 09:04
-	11	rotor.ab. and wind\$4.ab. and stator.ab. and (rotat\$3 adj magnetic adj field).ab. and (phase adj angle)	USPAT; EPO; JPO	2003/10/17 13:21
-	1	rotor.ab. and wind\$4.ab. and stator.ab. and (rotat\$3 adj magnetic adj field).ab. and (phase adj angle) and (alternat\$3 adj current).ab.	USPAT; EPO; JPO	2003/10/17 13:22